

December 10, 2007

Chip Humphrey
Eric Blischke
U.S. Environmental Protection Agency, Region 10
811 SW 6th Avenue, 3rd Floor
Portland, OR 97204

Re: Lower Willamette River, Portland Harbor Superfund Site USEPA Docket No: CERCLA-10-2001-0240

Monthly Progress Report for November 2007

Dear Mssrs. Humphrey and Blischke:

This monthly status report provides information required by the Portland Harbor Superfund Site Administrative Settlement and Administrative Order on Consent (ASOC).

1. ACTIONS TAKEN IN NOVEMBER 2007

- The Round 3B biota sampling task resumed in November with the collection of clams from November 12th through November 16th at ten target locations. Estimates of the biomass collected at each location were discussed during the sampling with EPA and EPA concurred by e-mail that the tissue sampling effort was adequately completed. Collocated surface sediments were successfully collected at 8 of the 10 clam stations during the week of November 19, 2007 using a van veen grab sampler. Sediment sampling will be re-attempted at the remaining two stations the week of December 3, 2007 using a power grab sampler.
- The Round 3 lamprey ammocoete toxicity testing program, initiated with lamprey collection in late August, continued throughout November with laboratory toxicity testing per the procedures described in the FSP and QAPP addenda (and as modified in consultation with EPA). The lab initiated toxicity testing with naphthalene in late October and completed the testing in November. An acceptable flow-through test was performed with naphthalene and this test was carried out to completion, however, an LC50 value could not be calculated from this test because only 50% died in the highest concentration. The lab will continue the testing program following EPA direction on how to proceed (i.e., re-run the naphthalene test or proceed with the pentachlorophenol test).
- Sediment traps were installed at all stormwater sampling locations, with the exception of Sulzer WR-4, from November 12th to November 21st depending on site access. A first stormwater collection event was triggered November 14th at 7 of 9 sampling locations (UPRR had not been installed due to a pending site access agreement and WR-4 was not in place because a sampling location had not been determined). For this event, composite water samples were successfully collected on November 16th from 4 outfalls. A second stormwater collection event was triggered on November 26th at 7 of 8 remaining sampling locations (WR-4 was still not installed; no further sample events were required at OF-49). Composite water samples were successfully collected on November 27th at 6 outfalls. A third stormwater sampling event was triggered on November 28th at 5 of 6 remaining sampling locations (WR-4 was still not installed, and no



further sample events were required at OF-49, OF-22B, and WR-96). Composite water samples were successfully collected at 2 outfalls. Of the 9 original sampling locations, 4 locations have now fulfilled FSP sampling requirements (OF-49, OF-22B, WR-96, and WR-218).

- Fourth quarter sampling of in-river sediment traps commenced on November 12, 2007 and ended November 14, 2007. All 16 in-river sediment traps were successfully recovered and sampled. Each was inspected, photographed, and measured in accordance with the applicable FSP. All of the required QA/QC samples were collected. Because this field effort fulfills the requirement of one year's total deployment duration, sediment traps were not re-deployed. Three of the 16 sediment traps (ST003, ST006, and ST009) contained insufficient material to conduct analyses for the full suite of analytes. For these three samples, one jar was sent for congener analysis, and the remaining containers were sent to Columbia Analytical Systems to determine solids content for subsequent prioritization for analysis. Sediment from the remaining 13 sediment traps was processed aboard the sampling vessel and returned to the Integral field facility for packing and shipping to the analytical laboratories.
- The Round 3B sediments sampling task was initiated on November 14, 2007 and continued through the end of the month. Through November 30th, all upriver sediment samples and all co-located sediment/bioassay samples had been collected with the exception of those between RM 11.2 and 12.2. The current schedule is to complete any remaining surface sediment sampling during the first week of December and began subsurface sampling (vibracoring) on December 10, 2007. It is anticipated that core sampling will continue into the first half of January. No sampling is planned during the holiday period in late December.
- Integral is assisting the LWG in updating the City's GIS outfall layer for the RI report. The second phase of the field outfall verification task took place during two rain event(s) the week of November 12th. This outfall verification program will continue in December. A final GIS layer with updated outfall information will be rolled out in the first half of 2008.

Deliverables Approved by EPA

- November 6, 2007: Round 3A Stormwater FSP Addendum
- November 5, 2007: Round 3B Comprehensive Sediment and Bioassay Testing Field Sampling Plan (conditional approval)

Deliverables Submitted to EPA

- October 31, 2007: Draft Round 3B QAPP Addendum 9 for Biota Sampling¹
- November 2, 2007: Round 3A Stormwater FSP Addendum
- November 5, 2007: Round 3B Comprehensive Sediment and Bioassay Testing Field Sampling Plan

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¹ This deliverable was mistakenly not listed in the October, 2007 progress report to EPA.



- November 16, 2007: Round 3A Sediment Data Report Addendum: Radioisotope Data
- November 21, 2007: Compilation of Information for Sources Between RM 11 and 11.6 East Bank of Portland Harbor

2. PROBLEMS ENCOUNTERED, ANTICIPATED DELAYS, AND SOLUTIONS

The need to modify some Round 3B target sampling locations was identified during field program implementation and modifications to the approved FSP were discussed with EPA and confirmed in email communications. These changes will be documented in the Field Sampling Report.

3. RESULTS OF SAMPLING, TESTS, AND OTHER DATA RECEIVED

The following chemical analysis results were received and validated in November 2007:

Round 3 Lamprey Ammocoete Toxicity Testing Phase 2								
		Total # Samples	Data Received November	% Analysis	% Validation			
Lab	Analyte Group	for Task	2007	Complete	Completed			
CAS	Conventionals	4	1	50	25			
CAS	Copper Copper,	32	13	100	100			
CAS	dissolved	32	13	100	100			
CAS	Naphthalene	63	31	49	0			
CAS	Lindane	32	0	0	0			
CAS	Aniline	31	31	100	0			

Round 3 Sediment Trap (Deployed in River) Event III

			Data		
		Total #	Received	%	%
		Samples	November	Analysis	Validation
Lab	Analyte Group	for Task	2007	Complete	Completed
CAS	Conventionals	7	0	86	0
CAS	Metals	7	0	86	0
CAS	Butyltins	7	0	86	0
CAS	TPH	7	0	86	0
CAS	VOC	7	0	100	0
CAS	Dioxins	7	0	86	0
CAS	Pesticides	7	6	86	0
CAS	PCBs	7	0	86	0
CAS	SVOC	6	0	100	0
CAS	Herbicides	7	0	86	0
CAS	PAH-SIM	7	0	86	0
CAS	Phthalate esters	1	0	0	0
Vista	PCB congeners	12	0	0	0



Round 3 Sediment Trap (Deployed in River) Event IV

			Data		
		Total #	Received	%	%
		Samples	November	Analysis	Validation
Lab	Analyte Group	for Task	2007	Complete	Completed
CAS	Conventionals	14	0	0	0
CAS	Metals	14	0	0	0
CAS	Butyltins	14	0	0	0
CAS	TPH	14	0	0	0
CAS	VOC	14	0	0	0
CAS	Dioxins	14	0	0	0
CAS	Pesticides	14	0	0	0
CAS	SVOC	14	0	0	0
CAS	Herbicides	14	0	0	0
CAS	PAH-SIM	14	0	0	0
Vista	PCB congeners	17	0	0	0

Round 3A Stormwater Outfalls - Sediment Traps

			Data		
		Total #	Received	%	%
		Samples	November	Analysis	Validation
Lab	Analyte Group	for Task	2007	Complete	Completed
CAS	Conventionals	27	0	0	0
CAS	Metals	8	0	0	0
CAS	Pesticides	17	0	0	0
CAS	Herbicides	8	0	0	0
CAS	PAH-SIM	12	0	0	0
CAS	Phthalate esters	12	0	0	0
Vista	PCB congeners	24	0	0	0

Round 3B Stormwater Outfalls (November 2007 Storm Event I)

			Data		
		Total #	Received	%	%
		Samples	November	Analysis	Validation
Lab	Analyte Group	for Task	2007	Complete	Completed
CAS	Conventionals	4	0	0	0
CAS	Metals	4	0	0	0
	Metals				
CAS	dissolved	3	0	0	0
CAS	Pesticides	1	0	0	0
CAS	Herbicides	4	0	0	0
CAS	PAH-SIM	4	0	0	0
CAS	Phthalate esters	2	0	0	0

Round 3B Stormwater Outfalls (November 2007 Storm Event II)

			Data		
		Total #	Received	%	%
		Samples	November	Analysis	Validation
Lab	Analyte Group	for Task	2007	Complete	Completed
CAS	Conventionals	7	0	0	0
CAS	Metals	7	0	0	0

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	Metals				
CAS	dissolved	6	0	0	0
CAS	Pesticides	1	0	0	0
CAS	Herbicides	3	0	0	0
CAS	PAH-SIM	5	0	0	0
CAS	Phthalate esters	1	0	0	0

Round 3A Sturgeon

			Data		
		Total #	Received	%	%
		Samples	November	Analysis	Validation
Lab	Analyte Group	for Task	2007	Complete	Completed
Axys	Dioxins	17	0	100	100
Axys	Pesticides	18	0	100	100
Axys	PCB congeners	18	0	100	100
Axys	Lipids	17	0	100	100
CAS	Metals	20	0	100	100
CAS	Butyltins	17	0	100	100
CAS	SVOC	17	0	100	100
CAS	PAH-SIM	20	0	100	100
CAS	Lipids	3	0	100	100

Round 3B Biota

Lab	Amaluta Croun	Expected Total # Samples for Task	Data Received November 2007	% Analysis Complete	% Validation Completed
	Analyte Group			Complete	Completed
Axys	Dioxins	101	0	0	0
Axys	Pesticides	101	0	0	0
Axys	PCB congeners	101	0	0	0
Axys	Lipids	101	0	0	0
CAS	Metals	100	0	0	0
CAS	Butyltins	99	0	0	0
CAS	SVOC	99	0	0	0
CAS	Alkylated PAH	13	0	0	0
CAS	PAH-SIM	86	0	0	0

Round 3B Biota - Collocated Sediments for Sculpin, Crayfish, and Clams

		Expected Total # Samples	Data Received November	% Analysis	% Validation
Lab	Analyte Group	for Task	2007	Complete	Completed
CAS	Conventionals	32	0	0	0
CAS	Metals	32	0	0	0
CAS	Butyltins	32	0	0	0
CAS	Dioxins	32	0	0	0
CAS	Pesticides	32	0	0	0
CAS	PCBs	32	0	0	0
CAS	SVOC	32	0	0	0
CAS	Alkylated PAH	32	0	0	0
Vista	PCB congeners	32	0	0	0



Round 3B Surface Sediments

		Expected	Data		
		Total #	Received	%	%
		Samples	November	Analysis	Validation
Lab	Analyte Group	for Task	2007	Complete	Completed
CAS	Conventionals	200	0	0	0
CAS	Metals	200	0	0	0
CAS	TPH	200	0	0	0
CAS	Dioxins	46	0	0	0
CAS	Pesticides	200	0	0	0
CAS	PCBs	200	0	0	0
CAS	SVOC	200	0	0	0
CAS	PAH-SIM	200	0	0	0
Vista	PCB congeners	65	0	0	0

Willamette Cove Sampling and Analysis

			Data		
		Total #	Received	%	%
		Samples	November	Analysis	Validation
Lab	Analyte Group	for Task	2007	Complete	Completed
CAS	Conventionals	1	0	0	0
CAS	Metals	1	0	0	0
CAS	Butyltins	1	0	0	0
CAS	TPH	1	0	0	0
CAS	VOC	1	0	0	0
CAS	Dioxins	1	0	0	0
CAS	Pesticides	1	0	0	0
CAS	PCBs	1	0	0	0
CAS	SVOC	1	0	0	0
CAS	Herbicides	1	0	0	0
CAS	PAH-SIM	1	0	0	0
Vista	PCB congeners	1	0	0	0

4. SCHEDULE FOR THE NEXT FOUR MONTHS

Work described in the ASOC that is potentially planned for December 2007, and January, February, March 2008 includes the following:

- December 2007: Round 3A Stormwater Field Sampling Report
- December 2007: Draft Round 3B QAPP Addendum 10 for Sediment Sampling
- December 2007: Fate & Transport Surface Sediment FSP Addendum to 3B Sediment FSP
- December 2007: Round 3 Phase 2 Lamprey Toxicity Testing Field Sampling Report
- December 2007: Gunderson TZW Field Sampling Report
- January 2008: 4th Quarter Sediment Trap Field Sampling Report
- February 2008: Round 3A Sturgeon Sampling Data Report
- February 2008: Round 3B Biota Field Sampling Report
- March 2008: Stormwater Site Characterization Summary Report

Submittal dates for pending products currently under preparation by LWG and scheduled for submittal in upcoming months are listed in Table 1.



5. DOCUMENTS AND ISSUES AWAITING EPA RESPONSE

EPA comments or approvals have not been received on several milestones and documents that have been submitted to EPA as required by the ASOC; these and other documents and milestones are listed in Table 1. The LWG requests document/milestone approvals to verify that the terms of the ASOC are being met and issues are resolved to maintain progress on the RI/FS.

If you have any questions, please give me a call at (360) 705-3534.

Sincerely,

Gene C. Revelas

RI/FS Coordinator

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LWG Repository



Table 1. Status of LWG Deliverables - Portland Harbor RI/FS

Deliverable ¹	Submittal Deadline ²	Status/ Comments	EPA Comments Target Date
Round 1			
Conceptual Site Model Update	9/17/2004	Submitted; EPA comments received 1/13/2005	
Revised Conceptual Site Model Update Site Summaries	10/10/2005	Summaries submitted 10/10/2005 for Gasco, Triangle Park, ExxonMobil, Marcom, Arkema, Gunderson, & Foss Brix	EPA comments not anticipated
Remaining Revised Conceptual Site Model Update Site Summaries	2/28/2007	Summaries for Rhone-Poulenc and Siltronic submitted on 2/28/2007.	4/30/2007
Conceptual Site Model Update - Remaining Upland Site Summaries	First batch: 3/8/2005	First batch submitted on 3/8/2005	First batch: 5/8/2005
	Second batch: 3/8/2005	Second batch submitted on 3/8/2005	Second batch: 5/8/2005
	Third batch: 4/26/2005	Third batch submitted on 4/26/2005	Third batch: 6/27/2005
	Fourth batch: 4/26/2005	Fourth batch submitted on 4/26/2005	Fourth batch: 6/27/2005
	Fifth batch: 5/31/2005	Fifth batch submitted on 5/31/2005	Fifth batch: 8/1/2005
	Sixth batch: 5/31/2005	Sixth batch submitted on 5/31/2005	Sixth batch: 8/1/2005
	Seventh batch: 9/1/2005	Seventh batch submitted on 9/2/2005	Seventh batch: 10/31/2005
	Last batch: 2/28/2007	Last batch submitted 2/28/2007	Last batch: 4/30/2007



Table 1. Status of LWG Deliverables - Portland Harbor RI/FS

EPA Comments
Target Date
12/8/2005
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EPA comments and conditioned approval received 9/20/2007



Table 1. Status of LWG Deliverables - Portland Harbor RI/FS

Deliverable ¹	Submittal Deadline ²	Status/ Comments	EPA Comments Target Date
Round 2 Groundwater Pathway Assessment Sampling and Analysis Plan - Response to EPA Comments	TBD	This response to comments is on hold pending resolution of ongoing TZW framework discussions with EPA related to Round 3 data gap identification.	
Revised Round 2 Groundwater Pathway Assessment Sampling and Analysis Plan (including Appendix A - Site Summaries and Appendix B - Pilot Study Data Report)	TBD	Revision of the Round 2 GWPA SAP is on hold pending resolution of ongoing TZW framework discussions with EPA related to Round 3 data gap identification.	
Round 2 FSP for Sampling of Shoreline Seeps at Human Use Beaches	4/29/2005	Submitted 4/29/2005; EPA comments received 6/10/2005	
Revised Round 2 FSP for Sampling of Shoreline Seeps at Human Use Beaches	No longer needed	The only seep determined to pose a potentially complete exposure pathway is discharge from Outfall 22B. The existing data from Outfall 22B include the upland COIs and meet the data quality requirements for risk evaluation (Category 1/QA2). Based on the Round 2 Report evaluations, no additional seep data are needed. Therefore, this FSP is no longer needed."	
Revised Round 2 Groundwater Pathway Assessment SAP Attachment 2: Transition Zone Water FSP	3/27/2006	Redline version submitted 3/27/2006; final to be submitted following approval or comments from EPA	4/28/2006



Table 1. Status of LWG Deliverables - Portland Harbor RI/FS

Deliverable ¹	Submittal Deadline ²	Status/ Comments	EPA Comments Target Date
Revised Round 2 Groundwater Pathway Assessment SAP Attachment 3: Supplement to QAPP Addendum 3	10/7/2005	Submitted 10/7/2005: Conditional approval of proposed changes to the QAPP addendum received from EPA on 9/30/2005.	
Revised Transition-Zone Water FSP Addendum 1 Sampling Plans for ExxonMobil, Siltronic, Gasco, and Arkema	3/27/2006	Submitted 3/27/2006	
Revised Transition-Zone Water FSP Addendum 2	3/27/2006	Submitted 3/27/2006	
Natural Attenuation			
Step 2 Natural Attenuation Evaluation Report	No longer needed	EPA's proposed fate and transport modeling approach will provide the needed evaluation on monitored natural recovery (MNR). We propose that model be used to identify any further MNR data gaps and evaluations once it is up and running.	
Tech Memos			
Revised TRV Selection TM	10/23/2004	Submitted; EPA comments received 3/18/2005. On 6/10/2005, EPA directed the LWG to submit the final TRV Selection TM with the PRE.	
Second Revision Preliminary Risk Evaluation Approach TM	1/7/2005	Submitted; EPA comments received 3/4/2005. On 6/10/2005, EPA directed the LWG to submit the final PRE approach TM with the PRE.	



Table 1. Status of LWG Deliverables - Portland Harbor RI/FS

Deliverable ¹	Submittal	Status/ Comments	EPA Comments
	Deadline ²		Target Date
Comprehensive ERA Approach TM	6/27/2004	Submitted; EPA comments received 10/1/2004	
Revised Comprehensive ERA Approach TM	TBD	In a 1/11/2006 meeting with EPA, the LWG proposed deleting this deliverable. The LWG has not heard back from EPA on this proposal.	
Process for Derivation of PRGs TM	1/20/2005	Submitted; EPA comments received 6/30/2006; a revised tech memo is not required.	3/21/2005
Response to EPA Comments on Process for Derivation of PRGs TM	9/1/2006	Submitted 9/1/2006	
Draft Approach to Determining Background for the Portland Harbor Superfund Site	3/3/2006	Submitted 3/3/2006; EPA comments received 6/5/2006; revised tech memo required.	5/2/2006
Revised Approach to Determining Background for the Portland Harbor Superfund Site	7/20/2006	LWG response to EPA comments was submitted on 7/14/2006. Further discussion with EPA is required before the tech memo can be revised.	
Process for Delineating the Extent of Contamination Upstream and Downstream of the ISA	_	The approach for Delineating the Extent of Contamination Upstream and Downstream of the ISA will be provided in the Draft RI Report	



Table 1. Status of LWG Deliverables - Portland Harbor RI/FS

Deliverable ¹	Submittal	Status/ Comments	EPA Comments
	Deadline ²		Target Date
COPC Selection Interim Deliverable	~1/23/2006	In a 1/11/2006 meeting with EPA, the LWG proposed deleting this deliverable. The LWG has not heard back from EPA on this proposal.	
Ecological Risk Assess	ment		
Ecological Preliminary Risk Evaluation (PRE)	9/9/2005	Submitted 9/9/2005; EPA comments received 4/28/2006, a revised PRE is not required	11/8/2005
Bioassay Data Report	4/15/2005	Submitted 4/8/2005	6/7/2005; EPA comments not anticipated
Round 2 Benthic Assessment Interpretation Report	3/17/2006	Submitted 3/17/2006; EPA comments received 7/6/2006	5/16/2006
Food Web Modeling Report: Evaluating Trophic Trace and the Arnot and Gobas Models for Application to the Portland Harbor Superfund Site	11/4/2005	Submitted 11/4/2005; EPA comments received 3/10/2006	1/3/2006
Response to EPA comments on Food Web Modeling Report: Evaluating Trophic Trace and the Arnot and Gobas Models for Application to the Portland Harbor Superfund Site	4/21/2006	Submitted 4/21/2006	



Table 1. Status of LWG Deliverables - Portland Harbor RI/FS

Deliverable ¹	Submittal Deadline ²	Status/ Comments	EPA Comments Target Date
Revised Ecological Water Screening Levels	5/26/2006	Submitted 5/25/2006; directive EPA comments received 9/15/2006, and a correction to the xylene AWQC on 9/27/06. Additional revisions were submitted on 10/13/2006.	7/9/2006; delay in receipt of EPA comments or approval of this submittal will impact the project schedule
Feasibility Study			
2003 Sediment Stake Results Report	4/16/2004	Submitted	EPA comments not anticipated
Draft Disposal Site Inventory Preliminary Screening Report	7/12/2004	Submitted	9/10/2004; project schedule not yet impacted by lack of comments on this submittal
Facility Siting Re-Screen Report	TBD, Work Plan submittal deadline is 3/14/2005	In a 2/8/2006 meeting, EPA stated that it agreed to delete this deliverable.	
Literature Survey of Treatability Studies	October 2007	Submitted 10/31/2007	_
General Field/Data/RI	Reporting		
Validated Analytical Results	90 days following completion of each sampling activity		
Round 2 Surface Sediment Field Sampling Report	1/4/2005	Submitted	3/7/2005; EPA comments not anticipated



Table 1. Status of LWG Deliverables - Portland Harbor RI/FS

Deliverable ¹	Submittal	Status/ Comments	EPA Comments
Denverance	Deadline ²	Status, Comments	Target Date
Round 2A Subsurface Sediment Field Sampling Report	1/10/2005	Submitted	3/11/2005; EPA comments not anticipated
Round 2A Event 1 Surface Water Field Sampling Report	1/31/2005	Submitted	4/1/2005; EPA comments not anticipated
Round 2A Winter 2005 Surface Water Field Sampling Report	5/16/2005	Submitted	7/15/2005; EPA comments not anticipated
Round 2A Summer 2005 Surface Water Field Sampling Report	9/19/2005	Submitted	11/19/2005; EPA comments not anticipated
Round 2 Subyearling Chinook Tissue Collection Field Sampling Report	7/18/2005	Submitted 7/18/2005	9/16/2005; EPA comments not anticipated
Round 2 Multiplate Tissue Field Sampling Report	11/23/2005	Submitted 11/23/2005	1/13/2006; EPA comments not anticipated
Draft Round 2 Sediment Site Characterization Summary Report	7/15/2005	Submitted 7/15/2005	9/13/2005; EPA comments not anticipated
Draft Round 2 Surface Water Data Report for November 2004 and March 2005 Sampling Events	10/17/2005	Submitted 10/17/2005	12/16/2005; EPA comments not anticipated
Round 2B Subsurface Sediment Field Sampling Report	12/28/2005	Submitted 12/29/2005	2/24/2006; EPA comments not anticipated



Table 1. Status of LWG Deliverables - Portland Harbor RI/FS

Deliverable ¹	Submittal Deadline ²	Status/ Comments	EPA Comments Target Date
Round 2 Transition Zone Water Field Sampling Report	1/31/2006	Submitted 1/31/2006	4/3/2006; EPA comments not anticipated
Round 2 Benthic Invertebrate Field Sampling Report	2/20/2006	Submitted 2/20/2006	4/21/2006; EPA comments not anticipated
Round 2 Surface Water Site Characterization Summary Report	4/24/2006	Submitted 4/24/2006	6/23/2006
Round 2 Juvenile Chinook Tissue Data Report	3/31/2006	Submitted 3/31/2006	5/29/2006; EPA comments not anticipated
Round 2A Surface Sediment PCB Congeners Data Report	4/10/2006	Submitted 4/10/2006	6/9/2006; EPA comments not anticipated
Round 2A Archived Subsurface Sediment Data Report	5/5/2006	Submitted 5/8/2006	7/7/2006; EPA comments not anticipated
Round 2B Subsurface Sediment Data Report	5/22/2006	Submitted 5/22/2006	7/21/2006; EPA comments not anticipated
Round 2 Multiplate Invertebrate Tissue Data Report	6/12/2006	Submitted 6/12/2006	8/11/2006; EPA comments not anticipated
Round 2 Hydrodynamic/Sediment Transport Modeling Data Collection Field Sampling Report	6/19/2006	Submitted 6/19/2007	10/2/2006; EPA comments not anticipated



Table 1. Status of LWG Deliverables - Portland Harbor RI/FS

Deliverable ¹	Submittal Deadline ²	Status/ Comments	EPA Comments Target Date
Round 2 Benthic Tissue and Sediment Data Report	9/6/2006	Submitted 9/6/2006	11/6/2006; EPA comments not anticipated
Round 2 Transition Zone Water Site Characterization Summary Report	8/7/2006	Submitted 8/7/2006	11/6/2006
Comprehensive Round 2 Site Characterization Summary and Data Gaps Analysis Report	2/21/2007	Submitted 2/21/2007	EPA written comments on full report anticipated by January 2008
ROUND 3			
SURFACE WATER			
Round 3 January 2006 High-flow Event Surface Water Field Sampling Report	3/22/2006	Submitted 3/27/2006	5/22/2006; EPA comments not anticipated
Round 3 January 2006 Surface Water Sampling Event Data Report	10/23/2006	Submitted 10/23/2006	12/22/2006; EPA comments not anticipated
Round 3A September 2006 Low-flow Event Surface Water Sampling Field Sampling Report	12/8/2006	Submitted 12/8/2006	2/6/2007; EPA comments not anticipated
Round 3A November 2006 Stormwater Runoff Event Surface Water Sampling Field Sampling Report	1/15/2007	Submitted 1/15/2007	3/16/2007; EPA comments not anticipated



Table 1. Status of LWG Deliverables - Portland Harbor RI/FS

Deliverable ¹	Submittal Deadline ²	Status/ Comments	EPA Comments Target Date
Round 3A 2007 High Flow Surface Water Field Sampling Report	5/9/2007	Submitted 04/30/07	TBD; EPA comments not anticipated
Round 3A Surface Water Data Report for September 2006 Low-flow Event add November 2006 Stormwater Runoff Event	5/21/2007	Submitted 5/21/2007	TBD; EPA comments not anticipated
Round 3A 2007 High Flow Surface Water Data Report	October 2007	Submitted 10/15/2007	TBD; EPA comments not anticipated
TZW	-		
Gunderson TZW Field Sampling Plan	August 2007	Submitted 08/16/07; revised Tech Approach memo submitted 10/10/2007	EPA comments received on 9/20/2007; EPA approval on revised FSP received on 10/11/07
Round 3 Gunderson TZW Field Sampling Report	December 2007	TBD	TBD
BIOTA			
Revised FSP: Round 3 Sampling for Pre-Breeding White Sturgeon (Acipenser transmontanus) Tissue	12/22/2006	Submitted 12/22/2006; approved by EPA with conditions on 2/15/2007	1/22/2007



Table 1. Status of LWG Deliverables - Portland Harbor RI/FS

Deliverable ¹	Submittal Deadline ²	Status/ Comments	EPA Comments Target Date
Draft Round 3 Lamprey Ammocoete Toxicity Testing FSP	9/29/2006	Submitted 9/7/2007; conditionally approved by EPA on 10/11/2006, approval limited to procedures for collecting, transporting and holding ammocoetes only	10/13/2006
Draft Round 3 Lamprey Ammocoete Toxicity Testing QAPP	10/13/2006	Submitted 10/13/2006; approved by EPA with comments on 10/31/2006	ASAP
Round 3 Lamprey Ammocoete Tissue Collection Field Sampling Report	12/15/2006	Submitted 12/15/2006	2/16/2007; EPA comments not anticipated
Round 3 Sturgeon Field Sampling Report	5/7/2007	Submitted 05/07/07	TBD; EPA comments not anticipated
Round 3 Lamprey Ammocoete Phase 1 Toxicty Testing Data Report (and comment responses)	4/6/07	Submitted 04/06/07	6/8/2007
Round 3 Lamprey Toxicity Testing FSP Addendum		Submitted 07/09/07; response to comments submitted 08/10/07; revised FSP and QAPP addenda submitted 9/12/2007	EPA comments received 07/20/07; EPA approval received 08/17/07; EPA comments on revised FSP/QAPP addenda not anticipated
Round 3 Biota Sampling FSP	8/10/2007	Submitted 08/10/07; revised FSP submitted10/26/2007	EPA comments received 8/17/07



Table 1. Status of LWG Deliverables - Portland Harbor RI/FS

Deliverable ¹	Submittal Deadline ²	Status/ Comments	EPA Comments Target Date
Round 3B QAPP Addendum 9 for Biota Sampling	October 2007	<u>Submitted 10/31/07</u>	
Round 3 Lamprey Ammocoete Tissue Testing Data Report	August 2007	Submitted 08/24/07	TBD; EPA comments not anticipated
Juvenile Lamprey Tissue Data Interpretation Memorandum	September 2007	Submitted 09/12/07	TBD
Round 2 Mussels Data Report	October 2007	Submitted 10/1/2007	
Round 3 Phase 2 Lamprey Toxicity Testing Report	<u>April 2008</u>	Data report within 120 days of completion of each phase of testing per Phase 1 FSP.	-
Round 3B Biota Field Sampling Report	February 2008	TBD	-
Round 3 Sturgeon Data Report	2/13/2008	90 days after tissue sampling and analyses per FSP. Final data rec'd 11/13/07	
STORMWATER			
Round 3A Field Sampling Plan: Stormwater Sampling	2/7/2007	Submitted 2/7/2007; approved by EPA on 2/15/2007 with comments.	
Round 2 QAPP Addendum 8: Round 3A Stormwater Sampling	2/7/2007	Submitted 2/7/2007; approved by EPA on 2/15/2007 with comments.	



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Deliverable ¹	Submittal Deadline ²	Status/ Comments	EPA Comments Target Date
Round 3A Upland Stormwater Field Sampling Report	December 2007	Projected for submittal in early December 2007	1/31/2008
Round 3A Stormwater FSP Addendum	November 2007	Submitted 11/2/07	Approved by EPA 11/6/07
Stormwater Site Characterization Summary Report	3/5/2008	-	5/5/2008
Stormwater Loading Estimate Methods Report	None	-	TBD
SEDIMENT			
Round 3A Sediment Upstream / Downstream Field Sampling Report	4/9/2007	Submitted 04/09/07	TBD; EPA comments not anticipated
Round 3B Field Sampling Plan: Sediment Sampling and Benthic Toxicity Testing		Submitted 5/4/2007	TBD;
Upriver and Multnomah Channel Sediment Evaluation and Field Sampling PlanTechnical Approach		Submitted 5/25/2007	TBD;
Draft Round 3B Surface and Core Sediment FSP Preliminary Technical Memorandum		Submitted 5/25/2007	TBD;



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Deliverable ¹	Submittal Deadline ²	Status/ Comments	EPA Comments Target Date		
Draft Round 3B Erosion Core Sediment FSP Technical Memornadum	August 2007	Submitted 8/29/07	TBD		
Round 3A Sediment Upstream / Downstream Data Report	8/6/2007	Submitted 7/30/07	TBD; EPA comments not anticipated		
Round 3A Sediment Radioisotope Data Report	November 2007	<u>Submitted 11/16/07</u>	_		
Round 3B Comprehensive Sediment and Bioassay Testings Field Sampling Plan	November 2007	Submitted 11/5/07; submitted revised maps, tables, App. A-11 (Hist. Rd) 11/16/07	11/9/07 conditional approval		
Round 3B QAPP Addendum 10 for Sediment Sampling	November 2007	To be submitted in early December	_		
SEDIMENT TRAP (IN-RI	SEDIMENT TRAP (IN-RIVER)				
Round 3A Sediment Trap Sampling Quarter 1 Field Report	4/1/2007	Submitted 04/16/07	TBD; EPA comments not anticipated		
Round 3A Sediment Trap Sampling Quarter 2 Field Report	August 2007	Submitted 08/07/07	TBD; EPA comments not anticipated		
Round 3A Sediment Trap Sampling Quarter 3 Field Report	October 2007	Submitted 10/25/2007			



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Deliverable ¹	Submittal Deadline ²	Status/ Comments	EPA Comments Target Date	
Round 3A Sediment Trap Sampling Quarter 4 Field Report	January 2008	-	-	
Sediment Trap Data Report	5/7/2008	-	6/30/2008	
FATE & TRANSPORT				
Draft Chemical Fate & Transport Model Development and Data Gaps Identification Report	July 2007	Submitted 7/20/2007; response to comments being prepared bt the LWG	EPA comments received 10/15/07	
F&T Surface Sediment FSP - Addendum to 3B Sediment FSP	December 2007	to be submitted in early December 2007	-	
Cultural Resources				
Draft Cultural Resource Survey Report	12/16/2005	Submitted 12/16/2005	2/14/2006; EPA comments not time- critical at this point in the project	

Notes:

Only deliverables due within the next four months are shown.

Deliverable completed and approved by EPA.

Deliverable submitted to EPA and its partners.

Underlining indicates text change from last progress report.

Bolded Deliverables are primary deliverables per Section XIX., Paragraph 4 of AOC (EPA 2001a).
 Unbolded Deliverables are secondary deliverables per Section XIX, Paragraph 5 of AOC.
 Italicized Deliverables do not have stipulated penalty amounts.

² - Listed Submittal Deadlines are for draft documents. Unless otherwise specified, all final documents are due to EPA 30 days following receipt of comments from EPA.